



Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23967		Serial No. 10/687,638									
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Kiyoshi KAWANO et al.											
				Filing Date October 20, 2003		Group 2874									
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
/TJH/	2001 /	0	0	2	8	4	9	8	10/11/01	HAGA et al.					
		4	0	6	7	0	2	7	01/02/78	YAMAZAKI					
		4	2	6	2	9	8	8	04/21/81	ISHIBAI et al.					
		4	4	0	0	0	6	5	08/23/83	NAGLER					
		5	5	8	3	6	9	2	12/10/96	FUNATSU					
		5	7	2	9	3	9	0	03/17/98	ABE					
		5	9	2	6	6	5	7	07/20/99	HASUSHITA					
		6	0	8	8	0	5	3	07/11/00	HAMMACK et al.					
	2003 /	0	0	7	2	5	6	7	04/17/03	ABE					
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO			
		3	6	-	1	2	3	8	7	08/02/61	JAPAN			X	
		5	7	-	7	9	9	0	9	05/19/82	JAPAN			X	
		6	2	-	9	6	9	1	9	05/06/87	JAPAN			X	
				5	-	2	1	3	2	01/08/93	JAPAN			X	
				6	-	2	3	3	0	01/14/94	JAPAN			X	
				7	-	8	8	4	8	02/07/95	JAPAN			X	
		7	-	2	8	3	9	7	8	10/27/95	JAPAN			X	
		11	-	2	4	8	9	9	6	09/17/99	JAPAN				
		2	6	2	4	5	5	6	04/11/97	JAPAN			X		
	2001	-	2	8	1	5	5	5	10/10/01	JAPAN					
	2001	-	3	1	1	8	6	8	11/09/01	JAPAN					
	0	1	1	5	2	5	3	1	07/19/01	W.I.P.O.					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)															
V		1	English Language Abstract of JP 11-248996.												
/TJH/		2	English Language Abstract of JP 2001-311868.												
EXAMINER /Timothy J. Henn/									DATE CONSIDERED 03/17/2007						
*EXAMINER: Initial if citation considered. whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															

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/TJH/	2003 /	0 0 7 2 0 9 1	04/17/03	ABE			
	2003 /	0 0 6 3 3 8 2	04/03/03	HIRUNUMA et al.			
	2003 /	0 0 6 3 3 8 1	04/03/03	ABE			
	2003 /	0 0 8 6 1 6 4	05/08/03	ABE			
	2003 /	0 0 6 3 2 0 9	04/03/03	ENOMOTO et al.			
	2003 /	0 0 6 3 1 8 9	04/03/03	HIRUNUMA et al.			
	2003 /	0 0 6 3 3 8 0	04/03/03	HIRUNUMA et al.			
	2003 /	0 1 5 1 8 0 7	08/14/03	HIRUNUMA et al.			
	2003 /	0 1 5 1 8 0 8	08/14/03	HIRUNUMA et al.			
	2003 /	0 1 5 1 6 6 0	08/14/03	HIRUNUMA et al.			
/TJH/	2003 /	0 2 0 2 1 1 8	10/30/03	HURUNUMA et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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